

Cody Reed Smith

Post-Doctoral Research Associate
School of Natural Resources
University of Nebraska-Lincoln
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EDUCATION

- 2016 - 2019 Ph.D., Learning and Teaching in STEM
North Carolina State University, Raleigh, NC
Chair: Dr. Cesar Delgado
Dissertation: Exploring Sources of and Changes in Graduate Teaching Assistant Teacher Efficacy Throughout a Semester: A Mixed Methods Study
- 2014 - 2016 M.S., Kinesiology – Exercise Physiology
University of Arkansas, Fayetteville, AR
Chair: Dr. Brendon P. McDermott
Thesis: Observing Renal Responses to Endurance Cycling in the Heat
- 2005 - 2009 B.S., Kinesiology – Exercise Physiology
University of Arkansas, Fayetteville, AR

APPOINTMENTS

- 2019 - present Post-Doctoral Research Associate
University of Nebraska-Lincoln
School of Natural Resources
Supervisor: Dr. Jenny Dauer
- 2016 - 2019 Graduate Research and Teaching Assistant
North Carolina State University, Raleigh, NC
Friday Institute for Educational Innovation
Supervisor: Dr. Eric Wiebe
- 2014 - 2016 Graduate Research and Teaching Assistant
University of Arkansas, Fayetteville, AR
Human Performance Laboratory
Supervisors: Drs. Brendon P. McDermott and Matthew Ganio

PUBLICATIONS

- Smith, C.R.**, Delgado, C. (*in press*). Developing a model of graduate teaching assistant teacher efficacy: How do high and low teacher efficacy teaching assistants compare? *CBE-Life Sciences Education*.

- Smith C.R.**, Butts C.L., Adams J.D., Tucker M.A., Moyen N.E., Ganio M.S., McDermott B.P. (2018). Effect of a novel cooling kit on perceptual, physiological, and performance parameters following exercise in the heat. *Journal of Sport Rehabilitation*, 27, 413-418.
- McDermott B.P., **Smith C.R.**, Butts C.L., Caldwell A.R., Lee E.C., Vingren J.L., Munoz C.X., Williamson K.H., Ganio M.S., Armstrong L.A. (2018). Renal stress and kidney injury biomarkers in response to endurance cycling in the heat with and without ibuprofen. *Journal of Science and Medicine in Sport* 21(12), 1180-1184.
- Butts C.L., Spisla, D.L., Adams J.D., **Smith C.R.**, Paulsen K.M., Caldwell A.R., Ganio M.S., McDermott B.P. (2018). Effectiveness of ice-sheet cooling following exertional hyperthermia. *Military Medicine*, 182(9-10), e1951-e1957.
- Butts C.L., Torretta, M.L., **Smith C.R.**, Petway, A.J., McDermott, B.P. (2017). Effects of a phase change cooling garment during exercise in the heat. *European Journal of Sport Science*, 17(8): 1065-1073.
- Butts C.L., Luhring K.E., **Smith C.R.**, Tucker M.A., Moyen N.E., Ganio M.S., McDermott B.P. (2016). Effects of mild hypohydration on cooling during cold water immersion following exertional hyperthermia. *European Journal of Applied Physiology*, 116, 687-695.
- Butts C.L., **Smith C.R.**, Ganio M.S., McDermott B.P. (2016). Physiological and perceptual effects of a cooling garment during simulated industrial work in the heat. *Applied Ergonomics*, 59, 442-448.
- Luhring K.E., Butts C.L., **Smith C.R.**, Bonacci J.A., Ylanan R., McDermott B.P. (2016). Cooling effectiveness of modified cold-water immersion method following exercise induced hyperthermia. *Journal of Athletic Training*, 51(11), 946-951.

IN PREPARATION

- Smith, C.R.**, Delgado, C. Exploring changes in graduate teaching assistant teacher efficacy throughout a semester
- Smith, C.R.**, Delgado, C. Review of the literature on STEM graduate teaching assistant professional development and comparison to the K-12 PD literature.
- Smith, C.R.**, Dauer, J.M., Wierzbicki, A. Teaching assistant responses to COVID-19: Investigating relationships between stress, self-efficacy and approaches to teaching.
- Smith, C.R.**, Dauer, J.M., Wierzbicki, A. How do approaches to teaching relate to teaching assistant self-efficacy?

CONFERENCE PROCEEDINGS

- Smith, C.R.**, Delgado, C. (2020). Exploring sources of and changes in graduate teaching assistant teacher efficacy throughout a semester. *NARST*.
- Smith, C.R.**, Rachmatullah, A., Wiebe, E., Lord, T., Reichsman, F., Dorsey, C., Mott, B., Lester, J., Boulden, D. (2019). Assessing conceptual understanding of high school students with a digital educational genetics game. *European Science Education Research Association*.
- Rodríguez, F.J., **Smith, C.R.**, Smith, A., Boyer, K.E., Wiebe, E.N., Mott, B.W., Lester, J.C. (2019). Toward a responsive interface to support novices in block-based programming. *Blocks & Beyond*.

- Emerson, A., Smith, A., **Smith, C.R.**, Rodriguez, F., Wiebe, E., Mott, B., Boyer, K., Lester, J. (2019). Predicting early and often: Predictive student modeling for block-based programming environments. *International Conference on Educational Data Mining*.
- Smith, C.R.**, Delgado, C. (2019). Applying a K-12 consensus model to science teaching assistant professional development. *National Association for Research in Science Teaching*.
- Akram, B., Smith, A., **Smith, C.R.**, Aksit, O., Wiebe, E.N., Lester, J.C. (2018). Computationally-enabled modeling environments: simulating epidemic diseases in science classrooms using block-based programming. *NARST*.
- Aksit, O., **Smith, C.R.** (2017). Geniventure: Explore genetics in your classroom through virtual dragons. *North Carolina Science Teachers Association*.
- Smith C.R.**, Butts C.L., McDermott B.P. (2015). Effects of a phase change cooling device on perceptual measures and work productivity while working in the heat. *International Journal of Exercise Science: Conference Proceedings, 11(3)*, 62.
- Butts C.L., McDermott B.P., **Smith C.R.** (2015). Physiological effects of a cooling garment during industrial-type work in the heat. *International Journal of Exercise Science: Conference Proceedings, 11 (3)*, 67.
- Luhring K.E., Butts C.L., **Smith C.R.**, Bonacci J.A., Ylanan R., McDermott B.P. (2015). Cooling effectiveness of modified cold-water immersion method following exercise induced hyperthermia. *Journal of Athletic Training: Supplement, 50(6)*, 59-60.
- Butts C.L., Luhring K.E., **Smith C.R.**, Burchfield J.M., Moyon N.E., Tucker M.A., Bonacci J.A., Ganio M.S., McDermott B.P. (2015). Effects of mild hypohydration on cooling during cold water immersion following exertional hyperthermia. *American College of Sports Medicine*.
- Smith C.R.**, Butts C.L., Adams J.D., Bonacci J.A., Ganio M.S., Moyon N.E., Tucker M.A., McDermott B.P. (2015). Effect of a cooling vest on perceptual, physiological, and performance measures following exercise in the heat. *American College of Sports Medicine*.
- Smith C.R.**, Butts C.L., Adams J.D., Bonacci J.A., Ganio M.S., Moyon N.E., Tucker M.A., McDermott B.P. (2014). Effect of a cooling vest on perceptual, physiological, and performance measures following exercise in the heat. *International Journal of Exercise Science: Conference Proceedings, 11(2)*, 55.

PRESENTATIONS

- Smith, C.R.**, Delgado, C. (2020). *Exploring sources of and changes in graduate teaching assistant teacher efficacy throughout a semester*. Conference session. NARST, Portland, OR. [Conference Canceled].
- Smith, C.R.** (2019, May). *Applying a K-12 consensus model to science teaching assistant professional development*. Poster presentation at the North Carolina State University STEM Education Graduate Research Symposium, Raleigh, NC.
- Smith, C.R.** (2018, April). *Exploring relationships between motive for attending a professional development workshop and teacher self-efficacy in science graduate teaching assistants: A proposal*. Poster presentation at the North Carolina State University STEM Education Graduate Research Symposium, Raleigh, NC.
- Smith, C.R.** (2017, April). *Teaching practices and philosophies among physiology professors, how well do they match?* Poster presentation at the North Carolina State University STEM Education Graduate Research Symposium, Raleigh, NC.

- Smith, C.R.,** Butts, C.L., McDermott, B.P. (2015, October). *Effects of a phase change cooling device on perceptual measures and work productivity while working in the heat.* Poster presentation at the Central States Chapter of the American College of Sports Medicine, Warrensburg, MO.
- Smith, C.R.,** Butts, C.L., Adams, J.D., Bonnaci, J.A., Ganio, M.S., Moyen, N.E., Tucker, M.A., McDermott, B.P. (2015, May). *Effect of a cooling vest on perceptual, physiological, and performance measures following exercise in the heat.* Poster presentation at the American College of Sports Medicine, San Diego, CA.
- Smith, C.R.,** Butts, C.L., Adams, J.D., Bonnaci, J.A., Ganio, M.S., Moyen, N.E., Tucker, M.A., McDermott, B.P. (2014, October). *Effect of a cooling vest on perceptual, physiological, and performance measures following exercise in the heat.* Poster presentation at the Central States Chapter of the American College of Sports Medicine, Overland Park, KS.

GRANT ACTIVITY

Co-PI, University of Nebraska COVID-19 Rapid Response Grant: *Teaching assistant self-efficacy and stress: Responses to mid-semester drastic changes in course delivery.*
\$49,584. Not funded.

TEACHING EXPERIENCE

University of Nebraska-Lincoln

Science Literacy 101	Fall 2019, Fall 2020, Spring 2021
Fundamentals of Biology II	Spring 2020

North Carolina State University

Introduction to Research in Science Education	Spring 2017
Methods of Teaching Science I	Spring 2017
Instructional Materials in Science	Fall 2016
Technology Tools for Science Teaching	Fall 2016
Student Teacher Supervisor	Fall 2016

University of Arkansas

Practicum in Laboratory Instrumentation	Spring 2016, Summer 2016
Internship in Exercise Science	Fall 2015, Spring 2016
Fitness Concepts	Spring 2015, Fall 2015

Surrey International Institute, Dalian, China

English Oral Skills	Fall 2013
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HONORS AND AWARDS

2019	Post-Doctoral Travel Grant - \$750 – University of Nebraska-Lincoln
2019	Biology Teaching Assistant Project (BioTAP) Scholars Program (Sponsored by the National Science Foundation)

2016 University Graduate Fellowship, North Carolina State University
2005 - 2009 Arkansas Challenge Scholarship, University of Arkansas
2005 Max S. Moody Memorial Scholarship, University of Arkansas

SKILLS AND TECHNICAL EXPERIENCE

- Canvas, Blackboard, Moodle
- Qualtrics
- Microsoft Office (Word, Excel, Power Point, Outlook)
- Google Suites (Docs, Sheets, Slides)
- SPSS Statistics Software
- Block-based Programming: Scratch, Blockly, Cellular, Snap!
- Experience with Mac and PC
- SAP

PROFESSIONAL DEVELOPMENT AND CERTIFICATIONS

- Basics of Virtual Reality for Science Education

ORGANIZATIONS

- Natural Resources Diversity and Inclusion Committee, UNL (2019 – Present)
- Biology Teaching Assistant Project (BioTAP, 2019)
- National Association for Research in Science Teaching (2017 – Present)
- North Carolina Science Teacher Association (2016 – 2019)
- American College of Sports Medicine (2014 – 2016)
- Central States Chapter of The American College of Sports Medicine (2014 – 2016)

SERVICE

- Husker Dialogues Freshman Diversity and Inclusion Event (Fall 2019)
- Fred J. Carnage Magnet Middle School Science Fair (Spring 2019, Spring 2018)
- Centennial Campus Magnet Middle School Science Fair (Spring 2018)
- STEM Education Day, North Carolina State University (Fall 2017)

PROFESSIONAL EXPERIENCE

2014 Field Processor
McNaughton Realty - Fayetteville, AR
Assessed, listed, and managed real estate property

2010 - 2013 Customer Service Representative
Graybar Electric - Springdale, AR
Managed industrial customer accounts and orders